DIRECTIONS FOR TREATMENT
and
INSTRUCTIONS FOR OPERATING

THE

BRANSTON VIOLET RAY HIGH FREQUENCY GENERATOR

AND

Ozone and Sinusoidal Controller

EIGHTH EDITION

CHAS. A. BRANSTON LIMITED

Offices and Factory:
355 Yonge Street - - Toronto
CANADA

NEW ADDRESS
320 WELLINGTON ST. W.
TORONTO 2, ONT.
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IMPORTANT NOTICE

We will make any repairs or replacements that are necessitated through defective material or workmanship during a period of one year free of charge, providing your generator is returned to our factory BY YOU DIRECT, via Parcel Post or Prepaid Express.

Do not ask your dealer to return generator to us as repairs will be made free, only when returned to the factory direct by the purchaser. Repairs on generators returned through dealers or jobbers will be chargeable.

When your generator is to be returned to you via Parcel Post, be sure to mail us sufficient postage to cover RETURN PARCEL POST AND INSURANCE CHARGES.

We do not assume any responsibility for accidents, neglect or if the machine has been taken apart, altered or repaired outside our factory.

Our guarantee does not apply to BROKEN INSULATED CORDS, nor does it cover dry cell batteries in battery models or VACUUM ELECTRODES.

Chas. A. Branston Limited

355 YONGE STREET **TORONTO**

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Instructions for Operating

READ CAREFULLY

If the generator does not at once begin to operate, turn the controlling knob to the right. Then, should the current not come through to the electrode, hold the glass bulb in the hand for a moment or two. The warmth of the hand breaks down the vacuum in the tube, permitting the current to flow through. Adjust the controlling knob right or left to obtain the desired strength of current. Right increases and left decreases strength of current. This controlling knob is not a switch and does not shut off the current, but is simply to regulate the amount of current delivered by the Generator. As soon as through using be sure to turn off the current at lamp socket or receptacle. All models, except Nos. 27 and 29, will operate on either direct or alternating current, and on any voltage from 100 up to 120. The Sinusoidal current, as given by our Models 27 and 29, is only obtainable from our Generators when they are connected with alternating current of 100 to 120 volt. If they are connected to direct current, the Sinusoidal controller will deliver a true Galvanic current.

(Generators are also made, when ordered, for operating on voltages from 120 to 250, direct or alternating, also on 32 volt lighting system.) Do not permit Generator to run without an Electrode being in the handle and the current drawn from the Electrode. Otherwise the current is converted into heat and eventually will heat the handle.

The Generators Need no Oil.

If the machine does not operate after following these instructions, *Return to Factory, charges prepaid*, for examination.

To obviate any unpleasant sensation when first making contact with a patient, the operator should hold the thumb or forefinger on the electrode, thereby taking the current until contact has been made. As soon as the electrode is in contact remove the thumb or finger so that the patient will receive the full flow of current.

In treating with No. 2, metal electrode, let the patient clasp it in his hand *before* the current is turned on so that there will be no unpleasant sensation. The operator's fingers should then be run very lightly over the scalp and forehead and through the hair or over the parts to be treated, finger ends barely touching, so as to draw the current through the part treated.

CAUTION

1. In massage and scalp treatments do not use a liniment or hair tonic containing over 40 per cent. alcohol, or any inflamable ingredient.

2. Although the spark from the vacuum tube is germicidal in character, yet ordinary sanitary rules should be followed in the care of electrodes.

3. Never insert or remove an electrode from any orifice of the body while the current is turned on.

4. Make it a general rule to never allow a vacuum tube to remain in contact with mucous membrane for more than *seven* minutes at one treatment.

5. When introducing electrodes Nos. 17 or 18 into the urethra, care should be taken not to use any undue force and thereby break off the glass tube in the canal.

6. Electrodes Nos. 11, 12, 13, 14, 15, 16, 17, 18 should be lubricated with Lubra-Septol before being introduced into the body.

7. Any electrical device should be kept clean and dry. It should never be used where there is any danger of its becoming wet or handled with wet hands. *Never use or handle any electrical device when any part of the body is immersed in water or wet, and when any part of the body is in contact with metallic connections.* Never attempt to use the current for electric baths.

Any deviation from this rule is likely to result in damage to the instrument and may lead to an unpleasant, or, in rare instances, to a severe electrical shock to the operator.

Never operate for more than twenty minutes at a time, as coil is liable to overheat and shorten the life of the Generator. Always allow it to cool down for a few minutes before using it again.

8. *When holding metal electrode with one hand never let the other hand, or any part of the body, come in contact with water, radiator, or gas pipes, or with the metal parts on top of Generator.*

PREPARATION OF THE PATIENT

When the surface of the body is to be treated, if no spark is desired, the electrodes must be in contact with the skin, and any clothing covering the part must be removed.

All metal, such as chains, corset steels, wire hair pins, etc., with which the tube comes in contact or within sparking distance will act as conductors and will give rise to sharp and disagreeable sensations. If they cannot be avoided they should be removed. Celluloid combs or hair pins must positively be removed, as they are inflammable if the spark should come in contact with them.

Aside from the reason spoken of above, when a sharp spark is required there is no necessity of removing the clothing, in fact a definite thickness of clothing gives a definite length of spark.

When the electrode sticks to the skin, dust with talcum powder.

GENERAL TECHNIQUE IN SKIN DISEASES AND LESIONS

In applying the high frequency spark over the surface of the body (as in Acne, Eczema, etc.), employ a current of sufficient strength to produce a spark one-quarter of an inch in length. Keep the tube in light contact with the skin and pass rapidly back and forth over the area to be treated. If the skin is moist, and the tube sticks, dust with talcum powder. Another method is to place a thin cloth over the surface, which will enable the tube to be moved smoothly and at the same time does not remove it far enough from the surface to make an unpleasant spark.

When itching is marked, the tube is raised from the skin, and as sharp a spark employed as the patient will tolerate for a short period of time. This quickly relieves the itching.

In treating lupus or any chronic ulcers, a spark is employed in the same manner, that is, as sharp as the patient can stand, but for not longer than one or two minutes at one time.

TECHNIQUE FOR RELIEF OF PAIN

In headaches and neuralgia and other painful conditions, the No. 1 surface electrode is applied over the affected parts and relief can be had in five to twenty minutes, depending on how severe the pain may be. Refer to special directions under respective headings.

ORIFICIAL TECHNIQUE

The technique of the application of the orifices of the body involves a use of tubes suited to the various areas, and also increases the importance of sterilization and lubrication. In these cases the tube is in contact with the mucous membrane and no sensation is felt except that of warmth. To avoid any danger of burns the tubes should not be left in contact for longer than seven minutes at any one treatment. Tubes should always be inserted before the current is turned on, and not removed until the current has been turned off. Lubricate tube with Lubra-Septol.

LOCAL AUTO-CONDENSATION

The "Plate Glass" Method. Various methods have been devised for applying local Auto-Condensation locally over small

areas. A very popular way, known as the "Plate Glass" method, consists in using the No. 2 metal handle and applying the sparks through thick plate glass held in contact with the patient's body. The glass is the di-electric, the metal handle corresponds to one plate of a condenser and the surface of the body next to the glass, to the other. This treatment will be found very effective for lowering high blood pressure, without producing heart depression.

It has a more powerful action on all germ life than any other form of electricity. The increased internal body resistance is lowered materially. If the blood pressure is taken before and after treatment, the success of this treatment will be clearly demonstrated. This same treatment tends to break up calcerous deposits on the arterial walls. Waste products and urea are eliminated, also carbon dioxide. The effects of this form of High Frequency on hardening of the arteries, nephritis (Bright's Disease) and apoplexy, the two last troubles being caused by the first, are wonderful.

CAUTERIZATION

If a hot spark is held steadily over the spot from thirty seconds up to two or three minutes, varying with the patient, it will have a cauterizing effect. The reaction is severe and the destruction of tissue may be carried to a marked degree. Such applications are used in the treatment of warts, moles, etc.

SUMMARY OF VACUUM TUBE EFFECTS

A mild contact with tube in contact is sedative. As the current is increased or the electrode raised from the surface, allowing a spark to pass, it becomes first stimulating, then strongly stimulating, and finally caustic and destructive. The effects of the tube application are as follows:

1. Increases blood supply to given area.
2. Increases oxidation and local nutrition.
5. Increases amount of oxygen in the blood.
4. Increases output of carbon dioxide.
5. Increases secretion and elimination of waste products.
6. Liberates ozone.
7. Increases bodily heat without corresponding rise in temperature.

8. Locally germicidal.

As to treatments: These must be taken *regularly every day* and not when you feel like it. Set aside a time for these appointments and keep them.

Electrodes which lose their vacuum should not be thrown away. Return these to our factory, together with one-half their original cost. They will be repumped equal to new and returned post free.

All Branston generators are guaranteed for one year *only when used with Branston Standard Electrodes.*

The length of the life of a vacuum tube is variable, like that of the electric light bulb. We cannot guarantee vacuum electrodes for any length of time. We manufacture the highest grade vacuum tubes that can be made, and test all tubes before sending them out; then, having provided our customers with the best the market affords, our responsibility ends. Electrodes should never be laid on a cool surface while warm, as sudden expansion or contraction may exhaust the vacuum. Lay on soft cloth.

No. 1—Surface Electrode.

The surface Electrode, as its name indicates, is used for treating the face and the entire surface of the body. Move the Surface Electrode slowly over the face in order to increase the circulation of the skin and improve the complexion. Wherever this electrode is applied it improves the surface or capillary circulation, and so promotes nutrition that hollow places in the face and body are filled up. The Surface Electrode is moved slowly over the entire body to increase circulation, overcome cold extremities, and to give a general tonic treatment. See directions for Ground Electrode.

Stimulating Effects: To produce this effect which increases the circulation to the parts treated, relieving pains or sore and stiff muscles, apply Surface Electrode No. 1 over the undergarments. Keep the electrode moving. The strength of current can be regulated by turning the knob on the Generator.

An extra Surface Electrode should be kept on hand in case one should become broken or the vacuum exhausted.

No. 2—Metal Electrode.

When this electrode is held in the hand the entire body is rapidly saturated with high frequency electricity and very invigorating effects are produced. *When holding metal electrode with one hand never let another part of the body come in contact with water, radiator or gas pipes, or with any metal part on top of the generator.*

No. 3—Glass Saturator Electrode.

Takes the place of metal electrode for tonic treatments. You do not make direct contact with metal and it is impossible to receive a shock even if user accidentally comes in contact with a grounded object.

No. 4—Rake Comb Electrode.

The Comb Electrode in the form of a rake is used to bring the Violet Rays in close contact with the scalp and to make several points of contact at one time. Violet Rays thus applied destroy any germs at the roots of the hair and so increase the circulation, through the scalp, that nutrient hair building material is brought to the hair roots, and any local cause for dandruff or falling hair is overcome.

No. 5—External Throat Electrode.

When it is applied to the skin on the outside of the throat the current flows inward, increases the circulation and carries away any waste matter, thus eliminating any congestion in the throat.

The shape of this electrode makes it especially adaptable for treating the arms and legs.

No. 6-7—Internal Throat Electrodes.

Place this electrode in touch with the mucous lining of the mouth before turning on the current, then move it slowly over the affected area, or as near it as possible. Another person can place his hand on the back of the neck while the Violet Rays are being applied to the throat internally, and his hand will draw the current out at the point of contact so that the current will be made to flow in a direct line from where the electrode is applied to where the hand of another person is applied, thus flowing through an affected area. If the Throat Electrode is applied to the front of the throat or over the bronchial tubes, the current will be drawn through these parts.

After placing the electrode in the mouth in contact with the mucous membrane and turning on the current, do not lift the electrode away from the mucous lining until the current has been turned off, as a sharp spark will produce a stinging sensation which will be disagreeable, but not harmful.

No. 8-9-10—Nasal and Ear Electrodes.

The Nasal and Ear Electrode is applied to the mucous membrane of the nose, five minutes at a time, to give internal treatments for Nasal Catarrh, colds or growths in the nose. The current should not be turned on until the electrode is in contact with the moist mucous membrane surface, so as to obviate any disagreeable spark. Used as an Ear Electrode, it is inserted in the ear against one side of the canal, but not deep enough to touch the ear drum. All troubles of the ear, such as catarrhal deafness, earache and chronic middle ear affections, are benifited by the Violet Ray treatments through the ear electrode.

No. 11-12—Vaginal Electrodes.

This electrode is used in all catarrhal conditions of the uterus and vagina. First lubricate with Lubra-Septol and do not turn the current on until the electrode has been inserted into the vagina. This treatment gives relief in the case of neuralgia of the uterus or ovaries, inflammation of the bladder, and in cases of delayed or painful menstruation. Use a medium current and do not apply the current to any internal organ for longer than seven minutes at a time. The No. 11 Vaginal Electrode is insulated with an air grip along the sides so that the current flows to the end of the electrode and no sparks are formed along the sides.

No. 13—Insulated Vaginal Electrode.

For generation of Ozone within the Vagina. Used for Ovaritis Leucorrhea, Vaginitis and pelvic inflammations.

No. 14-15—Rectal Electrodes.

The Rectal Electrode is used in treating stricture, hemorrhoids, piles, rectal abscesses and all catarrhal conditions of the intestines. Treatments through the rectum are very beneficial in diseases of the bladder and in prostatic troubles. The rectal electrode should be lubricated with Lubra-Septol and the current not turned on until the electrode has been inserted. Turn off current before the electrode is withdrawn so as not to spark affected parts.

No. 16—Special Prostatic Electrode.

Insulated so that all the current reaches the Prostate.

No. 17-18—Urethal Electrodes.

The Urethal Electrode is used for all inflamed catarrhal conditions of the urethal canal. It is lubricated and inserted before the current is turned on, and the current is turned off before withdrawing it so as to obviate any disagreeable spark. This treatment is very effective in stricture. The posterior uretha may be reduced almost as thoroughly and with much less pain by introducing a rectal electrode into the rectum.

Never treat an internal organ more than seven minutes at a time. Care must be taken not to use any undue force and thereby break off the glass tube in the canal.

No. 20—Spinal Electrode.

The Spinal Electrode has two points of contact and is made especially for treating both sides of the spine at once. The application of this electrode to the spine produces a very invigorating effect upon the entire nervous system. The electrode is convenient to use around the eyes and ears, as its peculiar shape enables it to fit in hollow places.

No. 21—Fulguration Electrode.

Is used to remove warts, moles, or to cauterize any skin surface. It is an electrode ending with a metal point so as to generate a spark from the Violet Rays. By adjusting the parts of the electrode, a long or short spark can be developed. Care must be taken in burning warts and moles not to burn too deeply. A very few sparks will whiten the skin and this skin will come off in a few days, leaving a healthy skin surface. After cauterizing apply the surface electrode in close contact with the cauterized spot in order to relieve the burning sensation.

Dessication Method (using Fulguration Electrode.) This method quickly removes warts, moles callouses,. It is a quicker method than the "Fulguration Method" and not so painful or irritating. Bring the metal point so it slightly protudes from the glass opening. Lay the metal point right on the growth and keep it there for a minute or so, until it feels hot, then remove and rest for a few minutes and when treatment is resumed again, the growth turns white, collapses and becomes soft and dark. A little vaseline, antiseptic or talcum can be placed on growth. It forms a scab and finally drops off in a few days, leaving a healthy pink skin and no scar. Strength of current is controlled by the knob on the Generator.

No. 22-23—Eye Electrodes.

The Eye Electrode is for treating the eyes through the eyelids. This is used freely in all eye diseases with a medium current. If any disagreeable sensation is produced the current can be made very light by holding the hand around the stock of the electrode while the end is in contact with the eyelid. The double eye electrode, No. 23, treats both eyes at once.

This electrode can also be used for spinal applications.

No. 24—Condenser Electrode.

Condenses the current near the surface of the glass so as to producee considerable heat, which is very desirable in deep-seated diseases and in all chronic cases. It carries the current very deep into the tissues and gives almost immediate relief in painful and rheumatic affections, Lumbago, Etc.

Showing how body should be bent forward so as to tighten painful muscles for treatment of lumbago.

No. 25—Cataphoric Electrode.

The Cataphoric Electrode is similar to No. 24 Electrode, except that there is a depression on the face of the tube for holding gauze wet in solution. The solution may be driven into the tissue. Do not use any solution containing over 40 per cent. alcohol.

No. 26—Spiral Electrode.

The Spiral Electrode is used the same as No. 1 Surface, but is larger and covers a larger surface, and is especially recommended for body treatment.

No. 30—Ozone Generator.

In this electrode the virtues of the Violet Ray are combined with the virtues of ozone and the pine-laden air of the North woods. Those who cannot go to the pine woods for relief of Hay Fever, Lung and Bronchial troubles can inhale the ozonized pine fumes from the Generator with equally beneficial results. The ozone invigorates the blood and exhilarates the entire body, while the pine odors soothe and quiet the nerves of the nose and bronchial tubes. Numerous cases of Hay Fever, Asthma and Lung trouble have been relieved or cured by the use of our Ozone Generator. In cases of Hay Fever the treatment should begin several weeks before the time of the Hay Fever attack.

A few drops of the inhalent are placed in the receptacle at the top of the Ozone Generator and then the cork and nose piece are fitted into place. This electrode fits into the handle of the Generator, the same as any other electrode.

While inhaling the ozone, sit down and rest the handle of the Violet Ray Generator on the lap to prevent its dropping, *hold the left hand round the neck of the glass below the part containing the inhalent. This will draw the current into the hand through the glass, warm the container and fill the upper receptacle with white vapor.* Insert in the nostrils the small tube at the top and breathe deeply, at the same time agitating the rubber bulb so as to force the ozonized pine fumes into the nostrils. With the

double inhaler both nostrils can be supplied with the fragrant ozone at the same time. Also read carefully paragraph on "Ozone" on page 21. Our Ozone Combination Models Nos. 25 and 29 are specially recommended.

No. 35—Pyorrhea Electrode.

The Pyorrhea Electrode is applied directly to the gums for all conditions of weak or receding gums or for Riggs' disease; then turn on the current and move the electrode over the surface of the gums, keeping it in contact so as not to produce a spark. Turn off the current before withdrawing the electrode from the mouth so as not to spark the mucous membrane. This electrode drives ozone into the gums and neutralizes any acid condition of the tissues and also increases the circulation in all the tissues with the result that all weakness and diseases of the gums are rapidly overcome. Most remarkable cures in very severe cases have been reported after using this electrode. Be careful not to touch metal fillings in the teeth, as this will produce a slight spark.

No. 36—Roller Vacuum Electrode.

The Roller Vacuum Electrode, as its name implies, is a glass roller for general body treatment, used similiarly to No. 1 Surface, but covers the body far more quickly. It is especially recommended for general tonic treatments.

No. 37—Special Ground Electrode.

This is a sponge applicator, handle, and cord, used to draw the current out of the body at some particular point where the action of the current is especially needed. The end of the wire is connected with a large body of metal, such as a stove or metal bed, and the sponge, after being dampened in salt water, is applied to surface of the body. The best effects are realized by connecting the end of the wire with a fine wire, which in turn is wrapped around a nail or other piece of metal and dropped to the earth. This connects the body with the earth current, which of itself has some beneficial effects upon the human organism. When the Vaginal Electrode is giving the current from the Violet Ray Generator the sponge can be applied over the ovaries or over any other painful spot in order to draw the current through the body at that place. The surface electrode can be applied to any place on the back and the sponge of the Ground Electrode to the skin on the opposite side of the body and the Violet Rays can be carried directly through any painful area of any diseased organ.

Do not use this Ground Electrode with the earth or water or gas pipes while using the metal Electrode No. 2. Use the Ground with a vacuum tube Electrode only.

Directions for Treatment

VIOLET RAY HIGH FREQUENCY

The electrode handle should always be held as shown, with the hand as near as possible to the end where the cord enters the handle. As it is impossible to absolutely insulate the High Frequency Current, this way of holding the handle prevents the current from being partially drawn through the hand away from the glass electrode.

VIOLET RAY HIGH FREQUENCY DIRECTIONS

Special Attention. In order to obtain the best results with the Branston Generator the treatment must be taken regularly according to directions. It is always better to wait 2 hours after meals before taking treatments in order to get the best results. Do not discontinue the treatments when you have obtained relief—keep them up for a longer period and effect a permanent cure.

Abscess. Use Electrode No. 1 with strong current in close contact with skin once or twice daily.

Acne Vulgaris (Pimples). No. 1 Electrode with medium current five minutes twice daily. Keep Electrode in close contact with skin. Special attention must also be paid to the Bowels and Digestive System which is generally the cause.

Adhesions. No. 1 Surface or No. 24 Condenser Electrode with current sufficient to produce half-inch sparks held in loose contact with the abdominal wall, seven to ten minutes.

Alcoholism. No. 1 Electrode over spine, solar plexus, and to the extremities. If blood pressure is high, use Auto-Condensation on spine.

Alopecia (Falling Hair). No. 4 Electrode used over scalp five to ten minutes twice daily.

Amenorrhea. Applications at least once a day in the Vagina for 7 minutes only, by means of the special glass vacuum elec-

trodes No. 11 or No. 12. In addition treatment should also be taken, with the No. 1 Electrode with slight spark over the lower abdomen and inner thigh. The Sinusoidal Current is also advisable to be used in combination with the Violet Rays.

Anal Fissure. (Split or tear in anus muscle.) The stretching of the muscle greatly benefits when used with the High Frequency Violet Ray glass Vacuum tube No. 14 or 15. Never treat longer than 7 minutes at a time and from 3 to 6 times a week. The Lubra Septol should be used on the electrode.

Anemia. Auto-Condensation and use of Ozone Generator is advised. The Sinusoidal Current should be used in combination with the Violet Rays.

Appendicitis. No. 1 or No. 24 Electrode with medium current kept moving in contact with the skin over region of appendix. On right side of spine at second and third lumbar use surface electrode for 5 minutes, as this has a beneficial effect on the appendix and cæcum. The Sinusoidal Current should also be used in combination with Violet Rays.

Arteriosclerosis. (High Blood Pressure) Auto-Condensation at least three times per week until results are obtained. Must be continued for forty or fifty treatments (see Eberhart's Manual, page 175, also Technique for Auto-Condensation on pages 3 and 4 of this direction book).

Asthma. No. 1 Electrode used over chest, allowing sparks to pass through underwear. Apply sparks on spine between first and second Dorsal on spine. Apply each side of spine bone. Same treatment for cold in the Lungs. Daily treatments of ten minutes' duration, also use Ozone Generator for ozone inhalations five minutes each day. Sinusoidal treatment is also recommended.

Atonic Dilation of the Stomach. In this we have complete relaxation of the motor fibres of the stomach. Use No. 1 Electrode over stomach for five minutes daily, followed by Auto-Condensation (plate glass method) for ten minutes. A five-minute treatment by surface electrode on spine, right behind stomach, is also beneficial. *Sinusoidal Current* is also advised.

Atrophy of the Optic Nerve. No. 22-23 Electrode used daily for five minutes in close contact with the eyelid, also at base of skull. The Sinusoidal Current is advised in combination with Violet Rays.

Backache (see Lumbago).

Baldness (see Alopecia).

Barber's Itch. Use No. 1 Surface Electrode for five minutes once daily.

Birth Marks. Treat with No. 1 Surface Electrode about

once or twice a day. Use a medium strong current. If part becomes irritable desist for a day or two, then commence again.

Blepharitis (Granular Eyelids). No. 22 Electrode with very mild current held in loose contact with the eyelid two or three minutes twice daily.

Boils. Paint with strong Iodine and allow to dry. Then use No. 1 Electrode (or better still No. 24 Electrode) in close contact with the skin. The Iodine will be driven right in.

Brain Fag. If blood pressure is high use Auto-Condensation applied daily, also No. 1 Electrode with medium current applied on forehead over eyes and back of ears and neck. If blood pressure is low apply sharp sparks to spine four or five minutes and over abdominal region for three minutes and over forehead and neck as above. Ozone inhalations, using Ozone Generator also desirable, five minutes daily.

Breast Development. Use Surface Electrode or Special Breast Electrode for ten to twelve minutes daily, medium strength. It not only enlarges the breast, but makes the flabby breast firm.

Bright's Disease. Surface electrode is applied from eight to twelve minutes over Kidneys and each side of spine at 11th and 12th Dorsal, which is on a line with the Kidneys. Also give about a twelve-minute treatment all over body for a general constitutional effect, Albumen quickly disappears.

Bronchial Asthma (see Asthma.)

Bronchitis. Sharp sparks, using No. 1 Electrode applied over chest and back, may be repeated every four hours until congestion is relieved. Auto-Condensation and Ozone inhalations are also advised.

Burns. Apply electrode according to size of burn in close contact until all sense of burning disappears.

Callouses. Callosities of all kinds are treated by application of sharp sparks, using No. 21 and Surface Electrode.

Carbuncle. Use No. 1 Electrode with medium current held close to the skin and moved over affected parts.

Cataracts (The Soft Variety). Treat with No. 23 or No. 22 Electrode over the closed eyelids with a medium strong current. Five minutes at a time is long enough. Twice a day, morning and evening is enough.

Catarrh (Nasal). Treat back of head and neck with Surface Electrode. Use No. 8 and 9 up in nose for about six minutes with a mild current. Our Ozone Generator should be used for three to five minutes each day. Treat daily.

Chilblains. The Surface No. 1 Electrode with a fairly strong spark applied right on the skin for about two to five minutes will bring about relief. Use a simple ointment under the Electrode.

Chronic Ulcers. Use a sharp spark from No. 1 Electrode to get a stimulating effect, afterwards treat through two or three layers of gauze with tube in close contact, medium current.

Cold Extremeties. High Frequency is an ideal treatment for this condition. Use No. 1 Electrode over extremeties, in loose contact, till the skin becomes red. Treatments over spine and abdomen also advised daily. Sinusoidal Current advised.

Cold in the Head. Our No. 1 Surface Electrode should be used about an inch above root of the nose. Applications on front of head about one inch back from where the forehead and hair meet will loosen the cold. Also use No. 22 or 23 Eye Electrodes as the secretions at back of eyes can be better reached with this Electrode. Use a few times a day as you are after speedy cure. Ozone inhalations should also be used.

Colitis (Inflammation of Colon). No. 1 Electrode with strong current passed lightly over bowel area or through underwear. Duration, fifteen minutes daily until relieved, and then three times weekly.

Constipation. Use as for Colitis, finish treatment by using sharp spark for about 2 minutes. Use daily. Auto-Condensation and Sinusoidal Current also advised.

Convalescence. In convalescence Auto-Condensation and a general body massage with No. 1, 26 or 36 Electrodes has splendid tonic effects. Sinusoidal Current advised in combination with Violet Rays for quick results.

Corns. If very much inflamed do not use No. 21 electrode, but only No. 22 Electrode with the concave cup end, which is best for corns and bunions. Regulate strength of machine by the knob on it.

Coryza (Inflamation of Lining of Nose and adjacent Parts.) Our No. 1 Surface Electrode with a mild current rubbed slowly over forehead and sides of face for about twelve minutes, two or three times a day. See also (Cold in the Head) directions.

Coughs. Speedy relief may be obtained by rubbing of camphorated oil on chest and throat and then applying the surface Electrode on same parts for about ten minutes. This is especially effective for children when usual remedies have failed. For adults also use No. 1 Electrode through fairly heavy dry towel for 5 to 7 minutes.

Cystitis (Inflamation of the Bladder.) Nos. 11 and 12 Electrodes used daily for seven minutes at first, then every other day.

Dandruff. For any seborrhic condition use No. 1 or 4 Electrode with medium current kept in close contact with the surface twice daily.

Deafness (Ear Noises.) Treat on back of neck with Surface Electrode No. 1 for about four minutes. Then use our No. 8 or No. 9 Nasal or Ear Electrode. Insert in ear for a couple of minutes at a time. Also treat back of ear, down sides of neck (the Eustachian Tubes) for three to five minutes each. It is wise in some cases to use the electrode up the nostril, especially if there is a catarrhal condition. For a longer treatment of five minutes, pour in 5 or 6 drops of warm glycerine with 1% carbolic acid before using the elctrode. This gives a conducting body which prevents sparking and is comfortable.

Diabetes (Sugar in the Blood.) Proper diet must be adhered to. The Surface Electrode No. 1 is applied all over the abdomen and the liver twice a day; current should be strong. If a real strong current can be tolerated place a thin towel over the abdomen and apply Surface Electrode over the top of this. Also use Auto-Condensation four times a week, increasing treatments gradually from 7 to 15 minutes. Persevere.

Dyspepsia (see Atonic Dilation of the Stomach.) Use strong spark along both sides of the spine and opposite and above stomach area. The general tonic effect of ozone inhalations are also advisable as given by Combination Models No. 25 and No. 29, or No. 30 Ozone Generator. Sinusoidal Current strongly advised for permanency and building up of walls of stomach.

Earache. Use Electrodes Nos. 8 or 9, with mild current, with ear drops as in deafness, also No. 1 Electrode back of ear or mastoid three to seven minutes.

Eczema. Treat with Surface Electrode 5 to 10 minutes, over whole area involved. After treatment dust with Boracic Powder and keep dry.

Eye Diseases. High Frequency Current is especially valuable in all eye diseases. Use Nos. 22 or 25 Electrodes with mild current five minutes daily, also at base of skull. The sinusoidal Current should be used in combination with Violet Rays (except granulation, catarrhal and infectious troubles.)

Fissure of Anus. A cure can be expected here. Use Electrode No. 15 for seven minutes daily. Lubricate with our Lubra-Septol.

Felons. Once a day treat with No. 1 Surface Electrode, about five minutes is enough.

Flabby Breasts. It is claimed by Dr. Monell that a stimulating application with Vacuum Electrode to the relaxed nipple of the flabby breast will immediately show its beneficial effect.

Gastritis (see Atonic Dilation of Stomach).

Glaucoma. Use Auto-Condensation to lower blood pressure, also No. 22 or 23 Electrode over closed eye for five minutes daily.

Goitre. First paint with strong Iodine and allow to dry. Use No. 1 Electrode or No. 24 Electrode with strong current kept in loose contact with the skin. Treat the sides of the neck as well as the goitre for five minutes. Then raise the tube and use as sharp a spark as the patient can stand for three minutes. Treat twice daily. In Exophthalmic Goitre the results are quicker than in simple goitre. Use until results are obtained. Numerous cures have been reported.

Gonorrhoea (Catarrhal Condition of Mucus Lining). In chronic forms good results can be obtained by using our No. 27, 28 or 29 or Vaginal No. 11 or 12 Electrode, followed by No. 14. Apply Lubra-Septol on the electrode before using. Treat for only seven minutes once a day.

Gout. Auto-Condensation is the treatment. Do not use during a severe attack.

Gray Hair. Use No. 4 Electrode three or four times weekly. This takes a long treatment to obtain results.

Grippe (Influenza). Tonic spark to spine and solar plexus, using No. 1 Electrode. Oxone inhalations are also beneficial, using No. 30 Ozone Generator or Ozone Combination Models Nos. 25 or 29.

Hay Fever. Use No. 8 Electrode up the nostrils, and No. 1 Electrode over the nose and upper part of spine. Ozone inhalations are of even greater importance. Use No. 30 Ozone Generator or Ozone Combination Models.

Headaches. Use No. 1 Electrode over forehead, back of ears and back of neck until relieved.

Hemorrhoids (Piles). Use No. 14 or 15 Electrodes not longer than seven minutes at one treatment with mild current. This is remarkably effective. See Orificial Technique.

Herpes Zoster (Tingling or Itching Shingles or Ringworm which spreads over body). Use our No. 24 Condenser for penetration, about a ten-minute treatment every day for a few days will bring relief.

Hypertension (High Blood Pressure). See Local Auto-Condensation.

Hypotension (Low Blood Pressure). Use sharp, stimulating sparks to spine and solar plexus.

Impotence (Lack of Procreative Power). Use Prostatic Electrode No. 15 or 16 and No. 28 with strong current. There is practically no sensation in a mucus surface, only a seven-minute treatment is permissable. Once a day is enough. Also use the

No. 1 Surface Electrode over the 12 dorsal and first and second Lumbar for about seven minutes, raising electrode off the skin to permit it to spark, which produces a stimulating effect. After first week treat for 2 days. Then miss two days. See also Sinusoidal Directions.

Infantile Paralysis. Apply Surface Electrode the full length of the spine about an inch on each side of spinal bone. At the end of the spine, on affected side or sides; well treat the buttocks, as this is where the hollows come, and the nerves here have everything to do with the muscles of the legs. Now apply current over paralyzed legs and arms. Then over the abdomen, stomach and liver. Treat for fifteen minutes at a time.

As a change the Metal Handle No. 2 should be placed in the child's hand and tied so it can't slip out. Now, using the two hands, massage the affected parts, as well as the whole length of the spine for fifteen minutes, using olive oil as a lubricant. Rub it well in. This treatment is non-harmful and very beneficial as you gain the ordinary massage, the electrical and constitutional effect. Never treat immediately after a meal. Wait two hours. Two treatments a day is sufficient. See also Sinusoidal directions.

Influenza (La Grippe). Treat both sides of spine from top to end with No. 1 Surface Electrode, also treat over the eyes and side of nose with mild current. Our No. 8 or 9 can be used in the nose for a few minutes at a time. Be sure and treat over the Solar Plexus, immediately after treating the spine. If chilly, treat the spine through the clothing as this is very stimulating. Treatment lasts about ten minutes on spine, five minutes on nose and eyes and five minutes on Solar Plexus, Ozone treatments should also be taken two or three minutes, several times daily.

Insomnia (Sleeplessness). There are few cases that cannot be cured. Use No. 1 Electrode on spine, back of neck and ears and on forehead. Use daily for fifteen minutes, preferably before retiring. Also hold No. 2 Metal Electrode for ten to fifteen minutes before retiring.

Intestinal Indigestion (see Atonia Dilation of the Stomach). The Sinusoidal Current is also beneficial. The diet should be regulated.

Iritis (Inflamation of Iris of Eye). Our No. 22 or 23 Eye Electrode should be used. Use the electrode over the closed eyelids, using a medium current strength for five minutes. One can use the treatment three or four times a day for the first few days and then twice a day until relieved.

La Grippe (see Influenza).

Laryngitis. Apply No. 1 or 5 Electrode to the throat externally five or ten minutes daily in loose contact. Ozone inhalations are also advisable. See that the throat and tonsils

are cleared by means of some good antiseptic gargle.

Leucorrhea. Use No. 11 or 12 Electrode daily in connection with antiseptic douches.

Locomotor Ataxia. Use sharp spark along spine, over buttocks, abdomen and joints, followed by Auto-Condensation. Daily treatments at first; later three treatments weekly. The Sinusoidal Current should also be used.

Lumbago. Use strong current with Electrode No. 1 or No. 24 over the central lumbar region, with muscles on the stretch. Use sharp sparks. Relief always follows a 20 minutes treatment.

Massage. The patient holds the No. 2 Metal Electrode (in his hand) which is, of course, connected to the Generator. A second party uses the hands on the bare skin and massages the part to be treated. If this second party's fingers merely touch the skin a spark will be seen which shows the current being drawn to point of contact. Any given part of the body can be more vigorously massaged by placing a towel over the part and using a mild or strong current to suit.

Moles, Moth Patches. Fulguration is the method used for moles, warts, etc. Avoid destroying too much tissue. Use No. 21 Electrode.

Mumps (Enlargement of Glands of Neck). With No. 1 or No. 5 Electrodes treat the swollen parts for about ten minutes. Repeat when necessary, at least once every day.

Nasal Catarrh. Use No. 8 Electrode inside and No. 1 Electrode outside with mild current three to four minutes on each side. Ozone treatments with No. 30 Ozone Generator or Models 25 and 29, are of the greatest importance.

Nervousness. Treat the back of the neck, even well up on the head, with No. 1 Surface Electrode, also the whole length of spine. If very nervous, ten minutes is enough at a time, twice a day and then once a day. After a few weeks two or three times a week is enough. See also Sinusoidal Directions.

Neurasthenia. General treatment with No. 1 Electrode. If blood pressure is high use Auto-Condensation; if low, use tonic sparks to spine. Ozone is a desirable adjunct. See directions on Sinusoidal Current.

Neuralgia. Use No. 1 Electrode with medium current over painful area in light contact with skin. Treatment is the same for all varieties.

Neuritis. In Neuritis we have an inflamed condition of a nerve,

the pain simulating that of Rheumatism or Neuralgia. High Frequency Current is curative in all cases. Use No. 1 Electrode over affected area with a mild sedative current in close contact with the skin. Sparks must not be used. Use once or twice daily if necessary, fifteen minutes for each treatment; continue until cured.

Obesity. Auto-Condensation is indicated, apply locally. Superfluous fat is a result of imperfect metabolism. Sinusoidal Current is also advised.

Pains (of Any Sort). The application of our No. 1 Electrode directly over the area of trouble in close contact is certainly wonderful. Treat the spot until relieved. A mild, medium or strong current can be used according to the part of the body treated.

Paralysis. Use No. 1 or No. 24 Electrode along the course of the paralysed nerves and muscles, *from* the spine to the affected part, part of the time in close contact and part of the time raised to get a spark. Sinusoidal Current is also valuable.

Pelvic Abscess. Use No. 11 or 12 Electrode seven minutes twice daily. Also No. 1 Electrode externally over pelvic region with mild current.

Piles (see Hemorrhoids).

Pleurisy. First rub with strong camphorated oil. Treat throuh a layer of clothing with medium current over front and back until marked reddening is produced. Twice daily if necessary. Ozone treatments are also advisable.

Poison Ivy. Our High Frequency Lubricant can be applied on the part. Use No. 1 Surface Electrode to cause spark over the affected area. To secure the desired sparks lift the Electrode off the skin about a quarter of an inch, or half an inch, and then let it down on the skin again. Alternate this mode of application. A five minute application is enough at a time. Relief is speedy.

Post Fracture Conditions. No. 1 Electrode used over affected parts helps to restore a normal condition. Also Sinusoidal current.

Post Operative Conditions. Same as above, and Auto-Condensation is also valuable.

Prostatic Diseases. Dr. Eberhart says he has cured over 90 per cent, of these cases. Use No. 14 or 15 Electrode seven minutes daily, mild current. See Orificial Technique.

Pruritis (Itching). This is relieved by using mild sparks over area.

Pyorrhea (Catarrh of the Gums). Best thing to do is to have the deposits removed by your dentist before commencing treatment. As the High Frequency Violet Ray is antiseptic as well as anti-toxic there is a surety of promoting nutrition and establishing a healthy condition of the gums. Use our Pyorrhea Electrode No. 35 for seven minutes on the gums a couple of times a day and no more. A mild or medium current is used. Special and more complete directions for treating Pyorrhea may be found in Dr. Eberhart's manual.

Rheumatism. High Frequency Currents are of exceptional value in this disease. Use No. 1 or 24 or 25 Electrode in loose contact with the skin over affected area until relief is obtained. Use twice daily if necessary, and until cured. Also use No. 2 Electrode for 20 minutes once daily. When painful condition has subsided, Sinusoidal treatment is recommended.

Ringworm. The No. 1 Surface Electrode is used over the affected part with small sparks. Two or three times every other day is the mode of treatment.

Scars. Use a strong spark over the scar tissue. The edge of our No. 1 can be used or our Fulguration Electrode No. 21. One treatment generally suffices, a scab generally forms and drops off, leaving a healthy normal tissue. Sometimes it requires a second treatment. Follow up treatment with No. 1 Electrode in close contact with skin to improve circulation.

Sciatica. Apply No. 1 or 24 Electrode along the course of the nerve and to lower part of spine. Ten to fifteen minutes daily.

Skin Diseases. See Technique on Eczema.

Sprains. Use No. 1 Electrode with moderate current in light contact and rub gently over sprain. Repeat every two or three hours. Rest is necessary.

Sore Feet (Bruises of any kind). Use our High Frequency Lubricant first and apply our No. 1 Electrode over the area for a few minutes at a time. Relief is prompt.

Sore Throat. See Laryngitis.

Stiff Neck and Stiff Joints. Apply Surface Electrode No. 1 for about fifteen minutes, twice a day, on joints. If applying on neck, apply behind ears and down sides of neck for about five minutes.

Tic Douloureaux. This has been successfully treated by High Frequency Current. Prolonged applications with No. 1 Electrode with medium current over the course of the nerve, and upper part of spine. Do not spark. Use in close contact. Iodine may be applied with good results, over the area, previous to treatment and allowed to dry.

Tonsilitis. See Laryngitis.

Tuberculosis. See Pleurisy.

Ulcers. Use No. 1 Electrode for about five minutes in contact. Lift the Electrode every now and then to produce a spark of at least a quarter of an inch long. Once a day is sufficient.

Varicose Ulcers. Long, thick, muscle-toning spark over the affected limb, on the spinal centres and on the general muscle masses of the body are indicated. Use No. 1 or 24 Electrode.

Warts, Wrens and Other Small Growths. Use our Special Fulguration No. 21. It produces a fine needle spark. Apply long enough to growth to cauterize it. A scab forms and it drops off, leaving a healthy pink tissue underneath. No scar will result. Ordinary antiseptic methods should be used until the tissue heals.

Whooping Cough. No. 1 Surface Electrode is used. Treat the same as for Asthma. The Ozone inhalation is also used.

Wrinkles. Apply our No. 1 over the wrinkles. If at corners of eyes, move the Electrode outward and in a circle. The same on the forehead. Use your judgment as to movement of Electrode according to location of wrinlkes.

Writers' Cramp. Use No. 1 Electrode with medium current applied in light contact from finger tips to and including shoulder area and upper spinal centres.

OZONE

PRODUCTION. Whenever an electric spark passes through the air ozone is liberated. Ozone is known under the chemical symbol O3, and is an allotropic form of oxygen. At the same time ozone is liberated nitrous and nitric oxides are also produced.

When you inhale Ozone, you take into your Lungs, and through your Lungs into the blood, life sustaining and purifying Oxygen in its most potent form. Ozone increases Oxygenation of the blood and tissues, and increases the number of red corpuscles. It has been proven, beyond all doubt, that Ozone will quickly kill the most infectious germs and Micro-organisms, and it will do this without injuring the most delicate mucous membrane. Ozone provides more than the equivalent of bracing Mountain or Sea-shore atmosphere, right in your own home.

When taking treatment with the Ozone, the Patient should be made comfortable in an easy-chair or couch, so that the body can be thoroughly relaxed. The room should be cool and slightly darkened. Ozone should then be inhaled by means of a "Branston No. 30 Ozone Generator" or through the mask, provided in Models No. 25 and No. 29.

Ozone treatment should be taken, at first, from five to ten minutes, once or twice a day, gradually increasing the time of treatment. No treatment should be taken until after digestion has taken place.

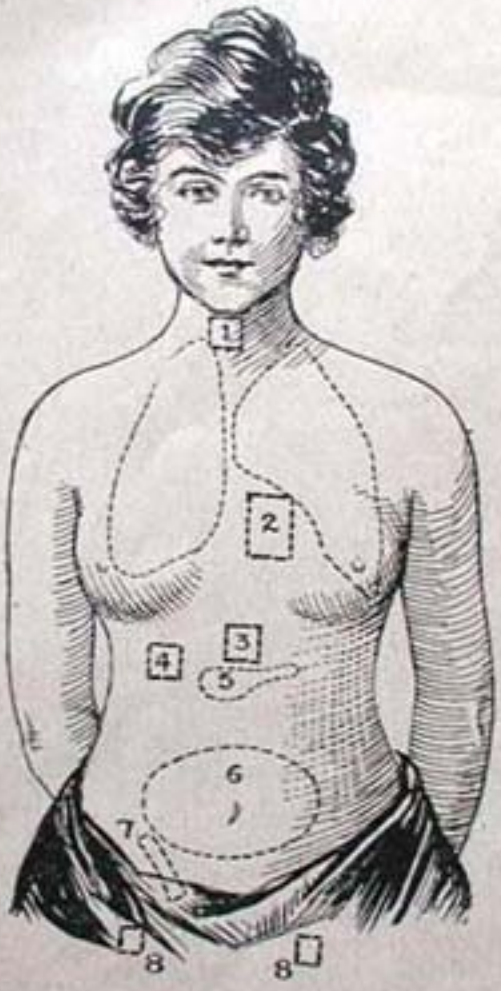
Daily treatments of Ozone cleanses and re-vitalizes the blood, thus enabling it to guard against attacks of sickness and disease.

INDICATIONS. Ozone is beneficial to the extent that pure air is desired, but there are some diseases in which it is of particular benefit. These are: Anemia, all diseases of the respiratory organs, including tuberculosis; infectious diseases, and all conditions where there is imperfect oxidation and impaired nutrition. An ozone spray has been demonstrated to be healing in all forms of ulcers, etc.

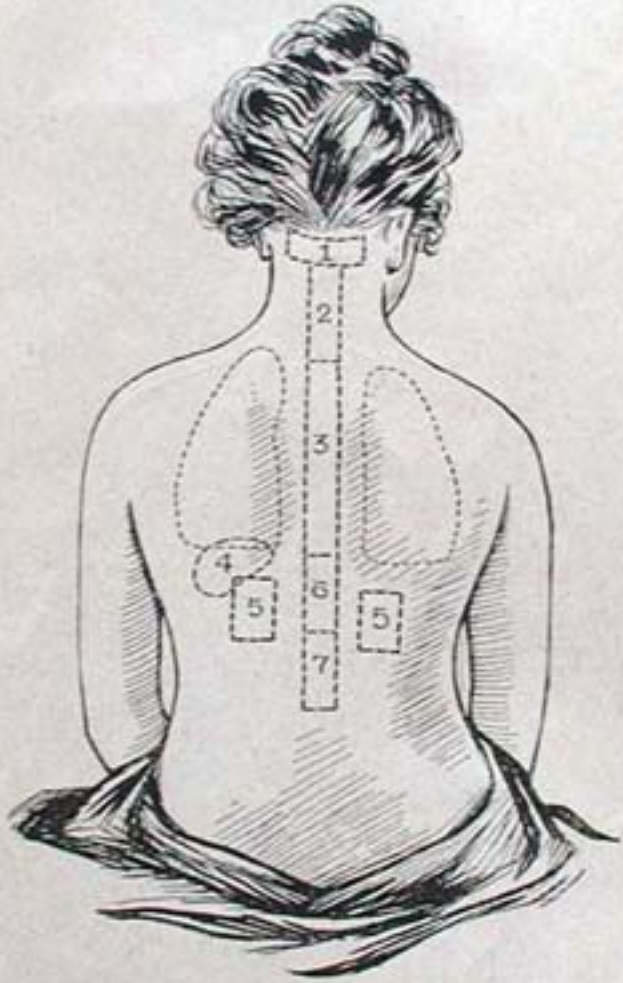
METHOD OF USING. In cases where individual treatment is required it is not necessary to fill the room with ozone, as quite satisfactory results can be obtained by using the small portable Ozone Generator, which may be attached to the handle of the Violet Ray Generator, or in some of our models is equipped as part of our Generator. It has been found necessary to filter the ozone through essential oils in order to remove the nitrous and nitric oxides. Oil is supplied for this purpose.

The value of ozone should not be overlooked and cases where it is indicated are mentioned in the list of diseases in this treatment book.

The Ozone Generator on Models 25 or 29 should be operated in the following manner: *First,* unscrew the covering over the Ozone Cup and pour in enough Ozone Oil to fill cup 1/8th full. Then turn the Selector Switch to "2." Having done this, place the mask tightly over mouth and nostrils and agitate bulb. Remove mask when breathing out.



On the front of the body, "1" marks the region of larynx; the dotted lines on the chest mark the pulmonary area; "2" is an important region for reflex actions upon the heart. Back of "4" lies the gall bladder; "3" marks the anterior relation of the deep-lying solar plexus, and "5" beneath it shows the boundaries of the pancreas; "6" marks the intestines; "7" locates the appendix, and each "8" has a surface relation to the ovary.



No. "1" on the back of the head at the base of the brain, is an important region for counter-irritation; "2" is the surface over the cervical spine and its nerve centres; "3" is the dorsal spine and centres; "6" the lumbar spine and centres, and "7" is the field of origin of nerves supplying the pelvic genito-urinary organ and sexual apparatus. The pulmonary area is defined by dotted lines. The right and left kidneys lie behind the fields "5-5," and under "4" is the spleen.

The Sinusoidal Current

WHAT IT IS. It is a most scientific current of remarkable healing properties, most soothing in its application to the most delicate child or to the most robust man. It consists of a series of electric waves rising and falling gently in such a manner as to produce a perfect massage of the tissues through the gentle contraction and relaxation of muscle and nerve tissue produced.

The Sinusoidal Current was first discovered in 1893 by Dr. D'Arsonval of Paris. The use of this current in the treatment of many diseases, especially of muscular and nervous origin proved so effective that the leading physicians all over the world became intensely interested in the subject. Dr. J. H. Kellog, a noted authority on electricity, wrote largely of the many benefits to be derived from the Sinusoidal Current. Dr. Abrams of San Francisco wrote several books in which he called special attention to the remarkable curative effects of this form of electricity in many cases which had hitherto been considered incurable.

WHAT IT DOES. One of the most remarkable properties of the Sinusoidal Current is in increasing the tone of the various organs, such as the heart, lungs, liver, stomach, intestines, bowels, etc., which are not easily reached by other means of electrical treatment. This current can be directed into the organs named by applying the current along the spine to the nerve outlets from these organs. Many conditions of ill-health are due to lack of tone of the heart; some to the weakness of the kidneys or liver. By applying the proper stimulus to the organ affected, the general health can be built up.

REMEMBER THIS. Always moisten pads thoroughly with warm water, no current will come through a dry pad.

WHY IT IS APPLIED TO THE SPINE. Everyone knows and realizes that nearly every nerve in the body originates in the spinal cord, passing out between the vertebrae, having some function to perform upon the organs. Each nerve has its opponent nerve and when each pair of nerves are in perfect equilibrium perfect health is the result.

Realizing that all sensations are reflexed or transmitted to the end of the nerve; for example, the ulna (commonly known as the crazy bone on the elbow) being touched, sensation is immediately felt at the end of the fingers; so with every nerve originating in the spinal cord. Knowing this to be true, then by

the use of Sinusoidal Current applied at the root of any of these nerves, it is immediately reflexed to the organ supplied by that nerve, such as the heart, lungs, liver, kidneys, bowels and pelvic organs. When any one of these organs has lost tone, the stimulus applied by means of sinusoidal electricity at the suitable spinal region will be reflexed to the organ, restoring its normal equilibrium (see chart as to where to apply treatment to the proper spinal region).

HOW PO LOCATE THE PART OF SPINE TO BE TREATED.

At the back of the neck will be noted a prominent bone or vertebræ which is more prominent than the others. This is called the seventh cervical, and is marked on the chart.

To locate the third fourth or fifth cervical, count upwards from this point.

To locate any of the dorsal vertebræ or lumbar vertebræ, count downwards. There are twelve dorsal vertebræ numbered from top downwards, and five lumbar vertebræ just below the dorsal vertebræ.

By counting and feeling the vertebræ along the spine one can readily locate the part to be treated with the greatest accuracy.

Chart Showing Anatomy of The Spine.

Nerve Centres of the sympathetic System for Sinusoidal Treatment.

Reflex Technique. (The stimulation of all nerves in the spine which control all the vital organs in the body). When using the hand sponge electrode on the spine at any of the spots mentioned, if the current irritates the skin, move it up or down until you hit the spot where there is no irritation. This last spot should be treated for five minutes, interrupting the current by our interrupting handle about twelve or fifteen times every minute. Of course, all this time the large pad is secure over the sacrum at end of spine. Thus you discover the weak spots in your spine and consequently the nerves must be interfered with. These nerves in your spine control all the vital organs in your body and must be attended to. If the organs in body have not the nerve control, they are weak, sluggish and in time play out.

REJUVENATING TO THE ENTIRE SYSTEM

This treatment is beneficial in Enlargement of the Heart, Palpitation of the Heart, Weak Heart, Leaky Heart (valvular trouble), Exophthalmic Goitre, Cold in the Head, Whooping Cough, Nose Bleed and Nervous Deafness.

SINUSOIDAL CURRENT DIRECTIONS

The coal-tar derivatives such as acetanilid and other preparations are used to stimulate the heart. After their effect has passed the patient is worse than before, as nature having spent her store of vitality is exhausted. No need of dope if you have our Sinusoidal Controller. Simply wet the large pad and place it at the sacrum (just below the small of the back) and with one small disc pressed at the seventh cervical (see chart) turn on a moderate current. After one-half minute turn it off. Rest one-half minute, repeat for five minutes in all. See that the pads are thoroughly moistened. If they become dry during the treatment wet them again. Treatments every day until relieved. The Sinusoidal Current will only work on the alternating current and not on the direct current.

Amenorrhea. Use one Sinusoidal Pad over the third Lumbar and the other over the lower abdomen. Treatment five to seven minutes. In addition, treatment should also be taken with the No. 1 Electrode with slight spark over the lower abdomen and inner thigh.

Anaemia (Thin Blood). Place our hand sponge electrode at the tenth dorsal on spine. The abdominal pad is placed over the sacrum. Treat for fifteen minutes. If bowels are lazy place abdominal pad on lower spine and move hand sponge over the whole abdomen, especially on the liver. If very much impoverished treat the whole spine on each side of it. These people need exercise in the open air and should eat the good old substantial food and take Cod Liver Oil in whatever form their

system will best tolerate it. It would be well in the above treatment, to interrupt the current for every half minute for five minutes by using our interrupting handle. (See Ozone inhalation for oxidizing the blood).

Angina Pectoris (Painful nervous affection of heart, with dilatation). Place hand sponge at 7th cervical on back of neck and abdominal pad on sacrum at end of spine. Treat for ten minutes, twice a day. Follow with Auto-Condensation, ten minutes, twice a day.

Asthma (Bronchial). Apply No. 101 over the 4th cervical *i.e.*, the two sponge handles held each side of the neck. Use interrupting handle and interrupt current every half minute for about five minutes only. Use a very mild current. Treat several times a day if case is aggravated. (See Ozone inhalation).

Backache (Caused by kidneys being distended). Place hand sponge at 12th dorsal and abdominal pad on sacrum (end of spine). If there happens to be stone in kidney, this treatment will cause pain, so do not treat again. Better see a doctor. Interrupt current every half minute by using the interrupting handle for five minutes.

Biliousness (Caused by an overloaded gall bladder or the bile failing to flow in the duodenum). This can be relieved with the Sinusoidal Electricity. Use No. 101 Electrode on the 5th and 6th Dorsal Vertebræ on the right side of "Spine Bone" and No. 133 on the sacrum or the lower abdomen.

Turn on current until you feel it on spine, never mind if you do not feel it on the stomach; treat for fifteen minutes.

Bladder Trouble (Nervous conditions, frequent urination, etc.). Place abdominal pad just above sacral region of spine (lower spine) and place hand sponge over bladder. Treat from ten to fifteen minutes at a time, once a day is enough. It is also well to alternate the treatment and treat over the kidneys, by placing the abdominal pad on the kidneys and the hand sponge electrode over the bladder. Treat for ten or fifteen minutes, once a day.

Bronchitis. Use hand sponge on the back of neck and abdominal pad over the stomach. After a ten-minute treatment, shut off the machine and lower the neck pad to between the shoulder blade and treat for another ten minutes. This should give relief. If it doesn't, interrupt the current with our interrupting handle about twelve times a minute for five minutes. (See Ozone inhalation for reaching the weakened tubes).

Cardiac Enlargement. Placing the two Sponge Electrodes No. 101 on either side of neck at the 7th cervical, thus stimulating

the vagus nerve which controls the heart, will bring about speedy relief.

Catarrh. Place No. 101 at 7th cervical on back of neck and hand sponge at end of spine (the sacrum) for ten to fifteen minutes; gives desired results. Also treat with No. 8 or No. 9 Violet Ray Vacuum Electrode up in each nostril for three to five minutes to get the Ozone effect. If case is of long standing better secure our Ozone outfit. Interrupt Sinusoidal current every half minute, using interrupting handle. (See Violet Ray technique).

Cold Extremeties. The Sinusodial current as in Amenorrhea.

Colitis. Place one pad over the sacrum and the other over the ninth and tenth Dorsal Vertebrae

Deafness (Noises, Ringings, etc.). Be careful and do not use this current if pus is coming from the ears. Only take this treatment when going to bed, or if you are going to be in the house for hours at a time. Never go out in air after a treatment.

Fill ear with well-soaked piece of absorbent cotton; plug the ear full. Place sponge hand electrode on back of neck. Now, place well-moistened wooden handle sponge electrode over the ear and treat with fairly strong current from five to ten minutes but once a day. If two ears are affected, treat each one for seven minutes at the one sitting. Be careful not to sit in a draught. If you must go out, plug the ears with dry absorbent cotton. (See Violet Ray treatment for deafness).

Eyes (Atrophy of the Optic Nerve). Use our hand sponge electrode on the back of neck and our No. 112, the double eye electrode, over the closed eyelids. Use a very mild current for fifteen minutes but once a day. (The Violet Ray treatment with double eye electrode for five minutes hastens a cure).

Enteroptosis (Intestinal suffering). Place the two sponge electrode handles No. 101 one at 7th dorsal and other at 8th dorsal. Apply a medium current for about five minutes, but once a day. The muscles in the abdominal cavity can be made strong and well. (The Violet Ray can be used over abdomen for five or ten minutes).

Exhaustion. Place the two bare feet on foot plate No. 103, which is covered with a wet cloth and which is connected to the binding post on generator. Attach hand sponge to other binding post and place on the nape of the neck, turn on current to toleration and treat for ten minutes, once a day. Follow with a Violet Ray treatment with No. 2 Electrode for 5 minutes.

Falling Womb (Peoplauss Uteri). Lie on the back and draw knees up. The abdominal pad should be placed on small of back and hand sponge placed on abdomen about couple of

inches either side of navel. Seven minutes on one side and seven minutes on other side. This will lift the womb if persisted in. Alternate the treatment by using No. 108 Rectal Electrode lubricated with our Lubra-Septol and inserted well up in rectum, with abdominal pad placed over abdomen. Treat for five minutes.

Goitre (Simple). Use hand sponge over goitre and abdominal pad over sacrum spine. Turn current on until you feel it in the gland. A fifteen-minute treatment is enough once a day. (See also Violet Ray Directions).

Goitre (Exopthalmic). Hand sponge at 7th cervical on spine, abdominal pad on sacrum. Interrupt current every half minute by using interrupting handle, for five minutes.

Hay Fever. Apply hand sponge on the 7th cervical spine and abdominal pad on sacrum (lower spine) for five or ten minutes. Our Ozone outfit should be used in combination for a speedy cure. The Violet Ray should be used up nostril for five minutes two or three times a day.

Headaches (Sick). Place Hand Pad (No. 133) over the sacrum and the large pad between the shoulder blades. Treat 10 minutes.

Headache (Nervous). Use Sinusoidal Current with small pad over 8-9-10th Dorsal Vertebræ and large pad over Sacrum. 7 to 10 minutes treatment.

High Blood Pressure. Same as for Nervous Headache.

Heart. Place hand sponge on 7th cervical on back of neck and No. 101 on 4th dorsal just between shoulder blades. Treat for about ten minutes. Interrupt current every half minute, for three minutes, by use of interrupting handle.

Heart (Palpitation). Apply hand sponge electrode on spine at 7th cervical nerve on neck and abdominal pad on sacrum at end of spine. Interrupt the current by using the interrupting handle for five minutes only. The interruptions are from twelve to twenty times a minute.

Impotence. Place the abdominal pad over the abdomen. Take the hand sponge and treat each side of the spine bone (about one inch from either side of the spine) from middle of back down to end of spine. Treatment lasts ten minutes. Leave Abdominal Pad on abdomen and connect other to the Rectal Electrode No. 108, which is lubricated with our Lubra-Septol, and insert in rectum. Turn on current to toleration and treat for another ten minutes.

Indigestion (Dyspepsia). Never use any form of treatment immediately after eating, but wait for a couple of hours later. Better still, take the treatment before the meal. Use abdominal pad over stomach and the hand sponge on spine between the

fifth and sixht dorsal. Ten to fifteen minutes' treatment is enough, once a day. If suffering very much take two treatment a day. If constipation is present, see directions under constipation treatment.

Intestinal Indigestion. Sinusoidal Current over Stomach and Abdomen, followed by Surface Electrode, for 5 to 7 minutes. This treatment should not be given immediately after meals.

Kidneys. If the right or the left gives you pain, off and on, better apply hand sponge electrode on 7th cervical nerve on neck and abdominal pad of sacrum and let current of toleration run for ten minutes. Then, using our interrupting handle, interrupt the current about ten to twenty times a minute for but five minutes. A few treatments will contract the kidney. If pain persists, despite this treatment, there must be a stone in the kidney. A doctor should be consulted at once.

Liver Congestion. Place hand sponge on 1st to 3rd lumbar and the abdominal pad on the sacrum (end of spine). Let current run for ten minutes and then, with the interrupting handle, interrupt the current every half minute for five minutes only. This latter contracts the liver and forces congestion out.

Lumbago. Use the Sponge Electrode over the spine at the 6th and 8th dorsal vertebræ and the abdominal pad over the painful area. Treat for about twenty minutes, twice a day at first, and then once a day until relieved. If it hurts most when you bend over apply sponge hand electrode on 8th and 10th dorsal spine. If it hurts most when you straighten up, the pad over the 6th to 9th dorsal is the mode of treatment. (See Violet Ray technique which, when used in combination, brings about quick results).

Mammary Glands (Caking and inactivity). Place Hand sponge electrode over 3rd and 4th dorsal spine and the wooden handle sponge over first one, and then the other side. Treat for fifteen minutes but once a day. This also enlarges the glands and consequently the breasts. (The Violet Ray in combination absolutely fills out the chest muscles).

Massage. Use our No. 103 with a piece of wet cotton placed over it. Stand on it with both bare feet (never mind if the plate is not large enough so long as the two feet are in contact with it). Take your hand sponge electrode or the No. 101, start at the nape of the neck, not on the spine bone, but about one inch on either side, and move the electrode slowly down the whole length of the spine, first on one side and then on the other. Next hold hand sponge over the Liver and then the

stomach. If the trouble is mostly in the legs, place hand sponge over the sacral spine, down near the end and leave it there for ten minutes. One can massage all over the legs if they wish, as well as the front of the body. This treatment will take about twenty minutes, once a day is enough. The Violet Ray can also be used (see instructions under this heading).

Menorrhagia (Profuse Menstration). Apply a strong current over the bladder with the hand sponge electrode, and the abdominal pad on the small of back. Treat for about ten minutes.

Menstral Pains. Apply hand sponge over 3rd and 4th dorsal spine and abdominal pad over abdomen. Treat about ten minutes twice a day.

Obesity. Use Sinusoidal Current as in Headache directions, follow by Auto-Condensation.

Pains (of Any Sort). The application of our abdominal pad as a dispenser can be used. If pain is anywhere in the back from the neck down to the end of the spine, place abdominal pad over the solar plexus. Then use hand sponge on the painful spot and leave it there. Turn on current to toleration and sit for fifteen minutes. The pain will be eased or dispersed. If pain is in the front part of body, place abdominal pad over Kidneys or on Sacral part of spine (lower spine) and use hand sponge over the painful area for ten or fifteen minutes. If pain is in legs, place wet cloth on foot plate, which is, of course, connected with binding post on Generator, and use hand sponge over painful area for about fifteen minutes. One or two treatments a day is enough. Use the interrupting handle for five minutes, and interrupt current every half minute.

Paralysis (Arm or Arms). Our handle sponge electrode is moistened and applied over the 3rd to 7th cervical nerves on back of neck, not on the spine bone in the middle, but just a little to the side, say an inch. The abdominal pad is placed on the sacrum at end of spine. Interrupt the current by using our interrupting handle. Interruptions are from twelve to fifteen times a minute, and length of treatment is but five minutes. Two or three treatments can be given in a day at first, but should be dropped to two in a few weeks' time and finally one a day. Can also treat locally all over arm for about seven minutes.

Paralysis (Infantile—Poliomyelitis). This condition is in the spine. Place our hand sponge electrode over spinal area indicated by the disease. The abdominal pad on sacrum at end of spine, or better still, procure another hand sponge electrode.

as the abdominal pad is liable to be too large for a child. Interrupt current, which must be mild for a child, by using the interrupting handle for five minutes only. The interruptions are twelve times every minute for five minutes. Massage the paralyzed parts with the hand. Do not neglect this. Better have a doctor watch the progress of the case. Also treat muscles of legs and arms once a day for ten minutes.

Persistent Hiccoughs. To gain immediate relief, apply the small sponge handles on either side of the neck at the 4th cervical nerve for about a minute or two at a tolerable current. This contracts the diaphragm by stimulation of the phrenic nerve which controls it.

Piles (Hemmorrhoids). Use the No. 108 Metal Rectal Electrode. Lubricate the Electrode with our Lubra-Septol. Place the abdominal pad over the stomach. Insert rectal electrode in bowel about three inches. Turn current on until you feel it on the abdomen. Take about a fifteen-minute treatment. You will find many troubles and conditions clear up that have failed to yield to anything else, as well as the disappearance of the internal piles, bleeding, itching and heavy condition of lower bowel. (Also see Violet Ray instructions for quick and lasting results in combination with this treatment).

Prostrate Gland (Hypertrophy). The gland is, of course, enlarged. Apply our Hand Sponge Electrode over the 12th dorsal nerve on spine and the abdominal pad on the sacrum at end of spine. Interrupt the current by means of our interrupting handle, about fifteen to twenty times every minute for five minutes, only once a week. Remove pad from sacrum, and place it over the stomach and to the other cord attach the No. 108 Metal Rectal Electrode and insert up in rectum about three or four inches and press it against the front wall of the rectum, towards the bladder, which is against the prostrate gland. Turn on steady current and let it flow for ten minutes at a treatment. Once a day is enough. This combined treatment can be taken at the one time. It is wise to use the High Frequency Violet Ray glass electrode in rectum for seven minutes on alternate days for speedy cure. Dr. Eberhart of Chicago, Ill., claims absolute cure in 90 per cent. of these cases.

Stiff Neck and Stiff Joints. (Follow the same technique as used under Pains of any sort). Use your own judgment as to where to place the Abdominal Pad and see Violet Ray technique also.

Sore Feet. (Same technique as used under Pains of any sort. (See Violet Ray technique).

Nervousness. Place Hand Sponge on the nape of the neck. Place abdominal pad over the stomach. Turn on current until you feel it on the neck. (Never mind if you do not feel it on the abdomen), as this pad is about eight or ten times larger than the neck pad. Sit for ten to fifteen minutes and no longer, once a day is enough. If the spine is weak and sore, leave the Pad on the neck and place abdominal pad on Sacral Spine (lower spine) and sit for ten to fifteen minutes. To hold these pads firm on the skin, place a pillow between back of chair and your spine. (See Violet Ray technique for further treatment).

Stomach (Inactivity). Place our hand sponge Electrode on the 1st to 3rd lumbar spine and the abdominal pad on the sacrum at end of spine. Treat for ten minutes. If this doesn't arouse activity use the interrupting handle, interrupting the current about twelve to fifteen times a minute for only five minutes. One treatment a day is enough. Marvellous results accrue. (The Violet Ray can be used in combination with gratifying results).

Tachycardia (Called the American disease caused by hurry, excitement, worry, etc.). Place the hand sponge electrode on the 7th cervical at back of neck and the abdominal pad over the sacrum at end of spine. Interrupt the current about twelve to fifteen times every minute for five minutes and then let the current flow evenly for another five minutes. You tone up the heart by action on the vagus nerve and thus the rate of the pulse is brought down to normal.

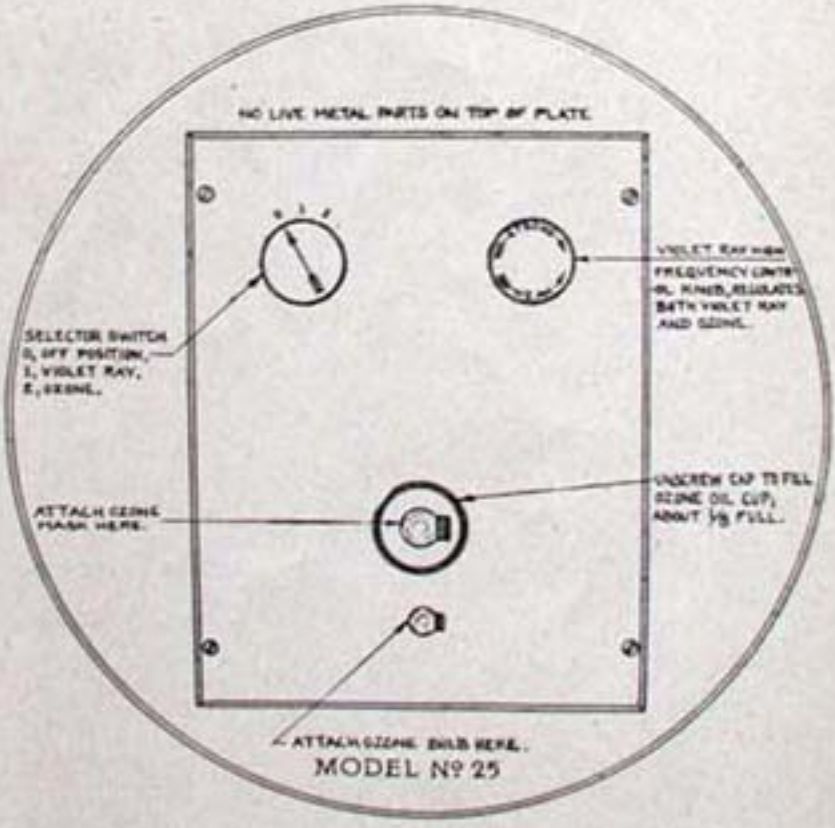
Vagus Nerve (Has everything to do in control of heart). By applying our hand sponge electrode on the 7th cervical and our abdominal pad on the sacrum at end of spine and letting current run for five minutes, then by using the interrupting handle and interrupting the current about twelve times every minute for another five minutes, one will be surprised how many symptoms of suffering are relieved by stimulating this wonderful nerve.

Womb (Subinvolution). Place our hand sponge electrode on the 1st and 3rd lumbar spine, the abdominal pad on the sacrum at end of spine. Let the current flow for five minutes and then, using the interrupting handle, interrupt the current about twelve to fifteen times a minute for five minutes more. The womb will contract, as any doctor can verify, by aid of the speculum. In a short time it will resume its normal position if there are no adhesions.

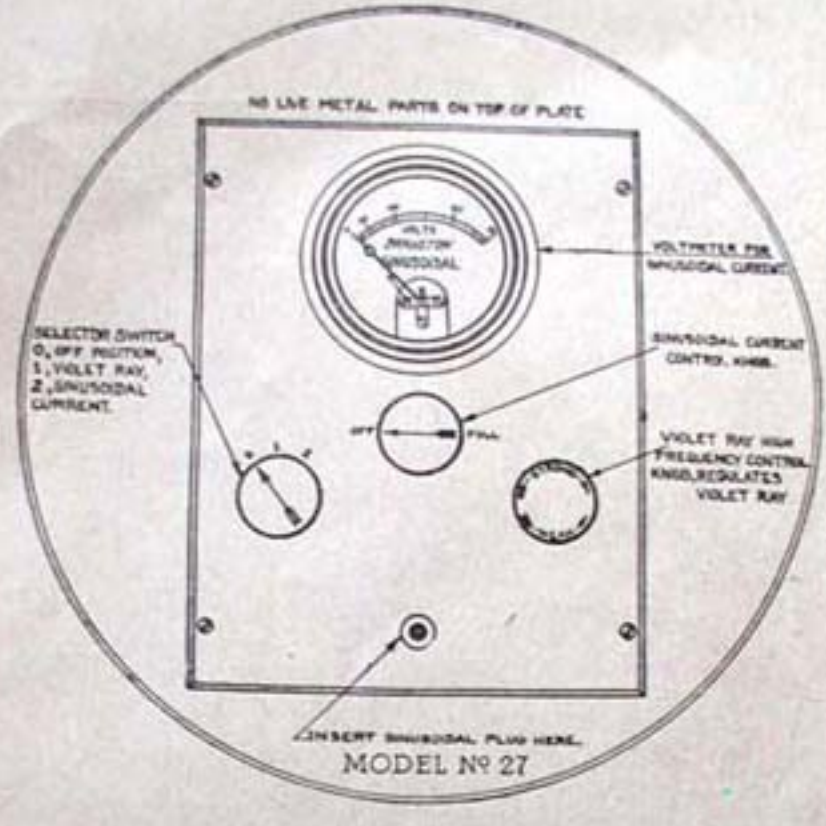
Whooping Cough. As soon as the coughing begins, hurry and place hand sponge electrode on the 7th cervical at back of neck and the abdominal pad on the sacrum at end of spine. Interrupt current twelve times every minute for three or five minutes with the interrupting handle and the spasm will be prevented. This will shorten the suffering and bring about cessation of this troublesome condition.

HOW TO OPERATE NEW MODELS 25-27-29

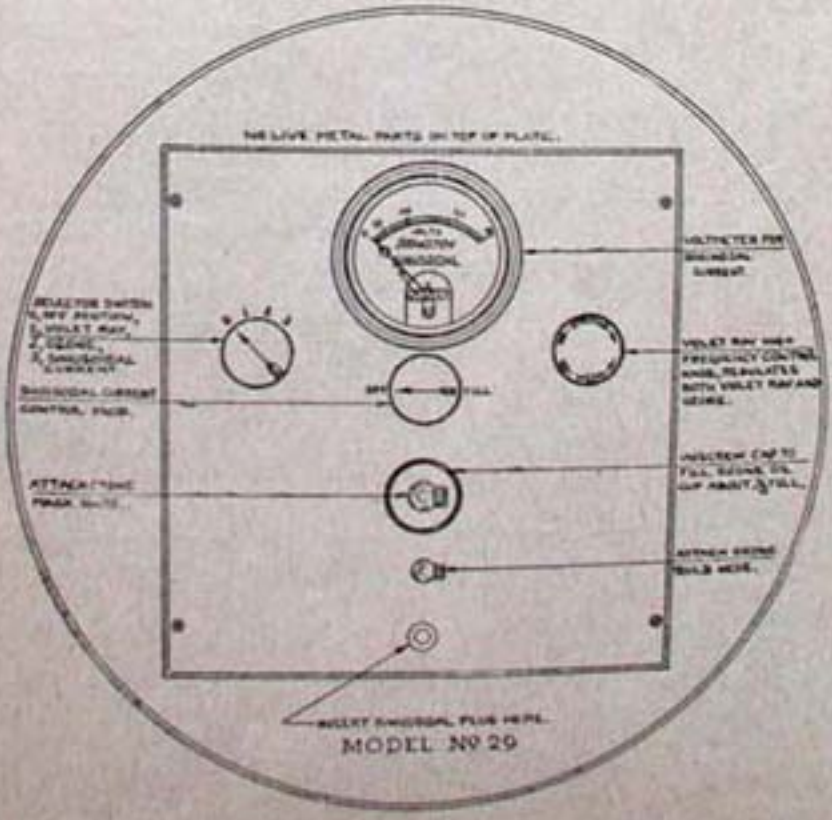
Study the cut of the diagram which shows exactly how to turn on the different currents on the larger models. The smaller models have only one knob to turn which makes the current strong or weak.



MODEL Nº 25

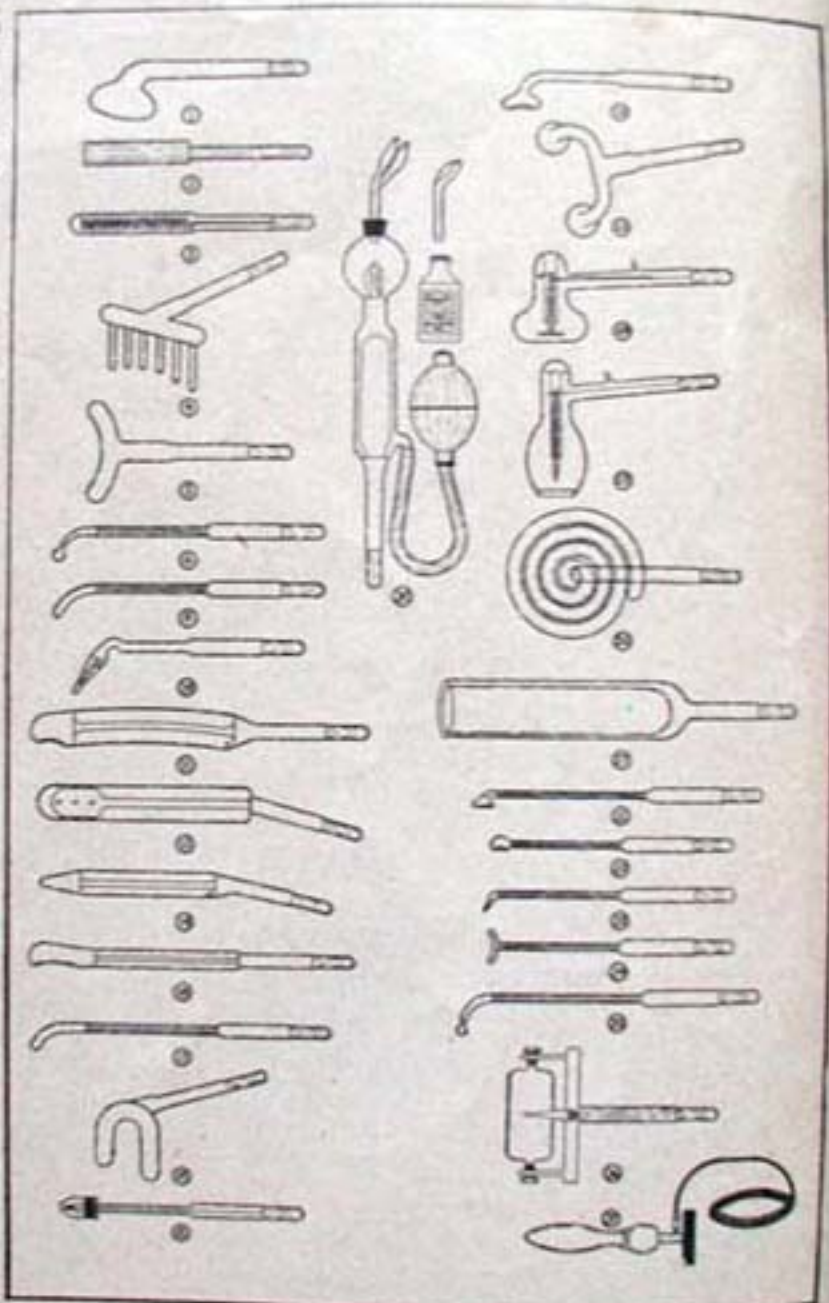

NO LIVE METAL PARTS ON TOP OF PLATE
VOLTMETER FOR SINUSOIDAL CURRENT
SINUSOIDAL CURRENT CONTROL KNOB.
VIOLET RAY HIGH FREQUENCY CONTROL KNOB, REGULATES VIOLET RAY
SELECTOR SWITCH 0, OFF POSITION, 1, VIOLET RAY, 2, SINUSOIDAL CURRENT.
INSERT SINUSOIDAL PLUG HERE.

MODEL № 27



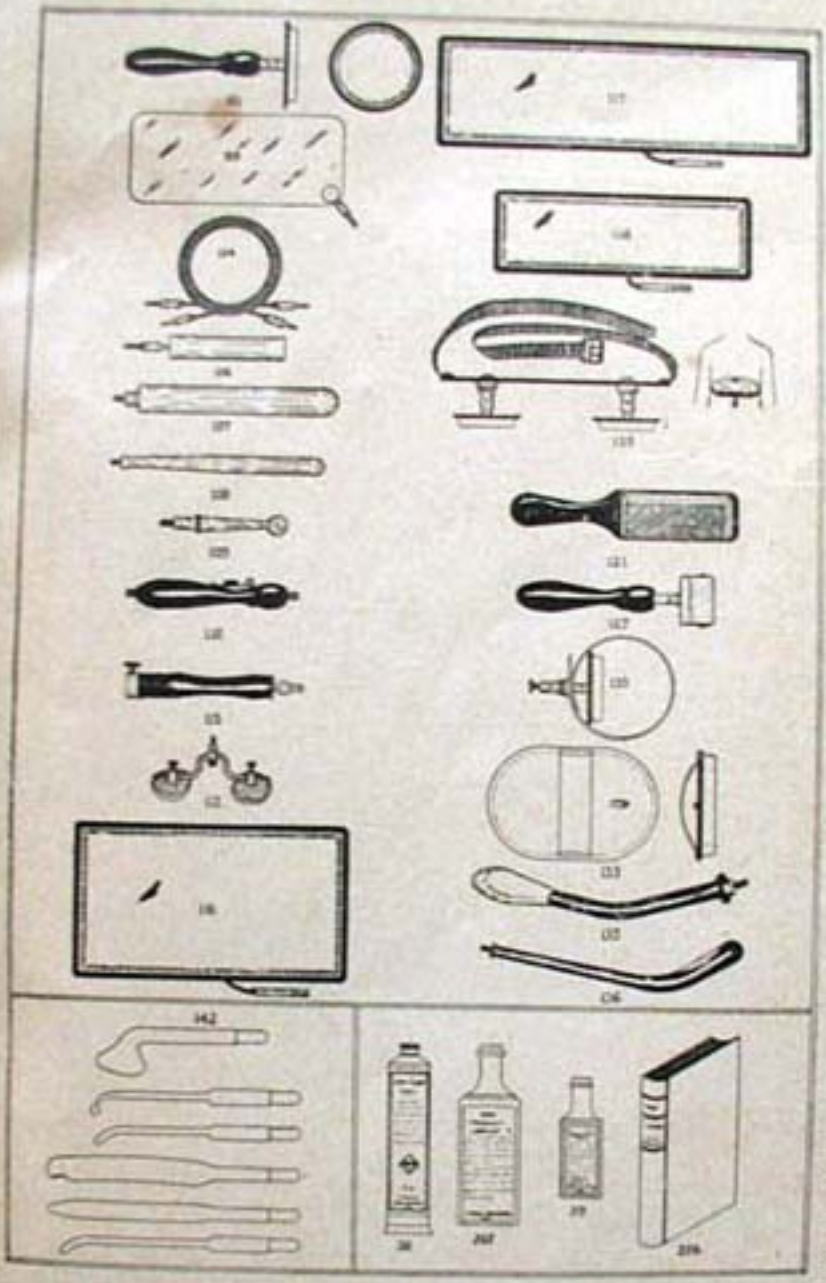
MODEL № 29

1. Surface or General . . $1.00
2. Metal Saturator $1.00
3. Glass Saturator Electrode $2.50
4. Rake Comb $2.00
5. External Throat . . . $1.50
6. Internal Throat (Insulated) $2.50
7. Internal Throat (Plain) $1.25
8. Nasal and Ear (Insulated $2.50
9. Nasal and Ear (Plain) . $1.25
10. Special Insulator Ear . $2.50
11. Vaginal (Insulated) . . . $2.50
12. Vaginal (Plain) $1.50
13. Insulated Vaginal Electrode $4.00
14. Rectal (Insulated) . . . $2.50
15. Rectal (Plain) $1.50
16. Special Prostatic Electrode $3.00
17. Urethral (Insulated) $2.50
18. Urethral (Plain) $1.25
20. Spinal $1.50
21. Fulguration $1.50
22. Single Eye $1.25
23. Double Eye $2.50
24. Condensor $4.00
25. Cataphoric Electrode . $4.50
26. Spiral, Large . . . $4.00
27. Penis (Small) . . . $3.00
28. Penis (Medium) . $6.00
29. Penis (Large) $7.00
30. Ozone Generator $8.50
31. Dental (Insulated) . . $2.50



32. Dental (Insulated) $2.50
33. Dental (Insulated) 2.50
34. Dental (Insulated) 2.50
35. Pyorrhea (Insulated) 2.50
36. Roller Vacuum 4.00
37. Ground Electrode 1.50

When Ordering Electrodes Separately add 10c for Postage



101. Sponge Electrode with Handle $1.60
102. Sponge Electrode without Handle $0.60
103. Foot Plate Copper, highly nickel plated, size 4x7 inches $1.00
104. Conducting Cords, per pair (Extra Quality) $1.00
105. Handle without Sponge $0.40
106. Metal Handle $0.40
107. Vaginal Electrode $2.00
108. Rectal Electrode $2.00
109. Erbs Electrode $0.75
110. Universal Interrupting Handle $1.25
112. Double Eye Sponge Electrode. May be adjusted to width of orbital space $2.50
115. Universal Needle Holder $2.50
Steel Needles and Brooches for removing Hair, etc., each $0.25
116. Large Abdominal or General Purpose Pad Electrode, extremely well made of finest wool felt. Will conform to shape of body. Special Insulated Leads attached. Size 6x8 inches $3.50
117. Lumbar Pad Electrode, same as No. 116. Size 9x4 ins. $3.00
118. Perinea Pad Electrode, same as No. 116. Size 2½x7 ins. $2.50

120. Spinal Electrode for the application of the Sinusoidal Current. This self-retaining electrode will save the annoyance of holding the electrodes in place on the spine $4.00
121. Hair Brush 1.25
127. Electric Massage Roller with Handle 2.00
130. Wrist Electrode 1.50
133. Hand Sponge Electrode (extra quality) 1.50
135. Curved Vaginal Electrode 2.50
136. Special Prostatic 4.00
142. Dr. Snows Set of 6 Electrodes 7.00
38. Lubra Septol ..... .75
202. High Frequency Lubricant 1.00
206. Eberharts Manual 4.00

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The ideal Lubricant for use with Vacuum Electrodes for internal use. It is antiseptic and germicidal. Insures an easy introduction and the least inconvenience to the patient.

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This preparation is manufactured by Chas. A. Branston Ltd., especially for use in connection with electric treatment. For rheumatism, neuralgia, neuritis and kindred ailments, it proves invaluable.

Directions: Pour a teaspoonful of the lubricant in the hollow of the hand and rub over the affected part thoroughly. Then apply the Violet Ray current, which will drive the Lubricant through the pores of the skin and to the source of the pain.

High Frequency Lubricant, per bottle $1.00

A WORKING MANUAL FOR HIGH FREQUENCY CURRENTS

By Noble M. Eberhart, M.D., Ph.D., D.C.L., Prof. and Head of Dept. of Physiologic Therepeutics, Med. Dept., Loyola University, Chicago. Prof. of High Frequency, Illinois School of Electro-Therapeutics. Author of "Practical X-Ray Therapy," "Vibratory Technique," etc. An up-to-minute ready reference guide by the leading authority on High Frequency.

Just what its name implies, a working handbook, telling how to use these currents. No lengthy discussions, no perplexing technicalities, no "red tape." Over 300 pages; over 60 pages of illustrations. Handsomely bound. Price $4.00 (postage, 10c).

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Can be used with any Violet Ray Generator. Direct medication. Valuable in the treatment of Throat, Nasal, Bronchial and Lung affections. Nervous ailments, Neurasthenia, Insomnia, etc. Complete in handsome leatherette case, with bottle of Ozone Oil and Glass Funnel.

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These electrodes are designed for general use. The set contains the following electrodes: Body, Vaginal, Rectal, Throat, Urethal and Nasal. Packed six in a set.

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